

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S73	82	(multiple adj ring adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:55
S74	4	(optical adj switch) and memory and squelch	US-PGPUB; USPAT	OR	ON	2007/09/11 13:56
S75	1	(topology or (network adj configuration)) and (optical adj switch) and squelch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:56
S76	399	optical and squelch and (@rlad<"20010802" or @ad<"20010802")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:56
S77	42	((multi adj ring) near network) and (@rlad<"20010802" or @ad<"20010802")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:57
S78	7	((multi adj ring) same backbone) and (@rlad<"20010802" or @ad<"20010802")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:59
S79	152	(switch\$4).ti. and (APS or (automatic adj protection adj switching)) and (@rlad<"20010802" or @ad<"20010802") and ((transmit\$5 or send\$3 or transfer\$3) same (fault or topology or ring))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 13:59
S80	33	(chordal adj ring) and (@rlad<"20010802" or @ad<"20010802")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/11 14:00

## EAST Search History

S81	18	MAN and fiber and ring and backbone and high and throughput and (multiple adj ring adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:02
S82	82	(multiple adj ring adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:02
S83	26	(multiple adj ring adj network) and MAN	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:02
S84	86	fiber same (ring adj network) same backbone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:21
S85	16	OHBT	US-PGPUB; USPAT	OR	ON	2007/09/18 15:21
S86	47	(digital adj wrapp\$4) and (optical adj switch) and multiplex\$3	US-PGPUB; USPAT	OR	ON	2007/09/18 15:28
S87	4	(optical adj switch) and memory and squelch	US-PGPUB; USPAT	OR	ON	2007/09/18 15:42
S88	1	(topology or (network adj configuration)) and (optical adj switch) and squelch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:42
S89	1	((node adj device) and (input adj unit) and (transmission adj line) and (output adj unit) and (switching adj unit) and (higher adj transmission adj speed)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 15:42
S90	7	(FUJITSU.asn.) and blsr and (higher adj speed)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 16:01

## EAST Search History

S91	1055	MAN and fiber and ring and backbone and high and throughput	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/18 16:01
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L2	1	((input or ingress) adj (unit or module or device)) and ((transmission or communication) adj (line or link or path or connection)) and ((output or egress) adj (unit or module or device)) and (switching adj (unit or module or device or element)) and (higher with (line or link or path or connection) with (speed or rate or bandwidth))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 10:54
L3	18	((input or ingress) with (unit or module or device)) and ((transmission or communication) with (line or link or path or connection)) and ((output or egress) with (unit or module or device)) and (switching with (unit or module or device or element)) and (higher with (line or link or path or connection) with (speed or rate or bandwidth))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 10:57
L4	15	((input or ingress) adj (unit or module or device)) and ((transmission or communication) adj (line or link or path or connection)) and ((output or egress) adj (unit or module or device)) and (switching adj (unit or module or device or element))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 10:54
L6	3	((input or ingress) with (unit or module or device)) and ((transmission or communication) with (line or link or path or connection)) and ((output or egress) with (unit or module or device)) and (switching with (unit or module or device or element)) and squelch).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 11:00
L7	10	((input or ingress) with (unit or module or device)) and ((transmission or communication) with (line or link or path or connection)) and ((output or egress) with (unit or module or device)) and squelch).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/19 11:00

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- Design and dimensioning of dual-homing hierarchical multi-ring networks**  
 Proestaki, A.; Sinclair, M.C.;  
[Communications, IEE Proceedings-](#)  
 Volume 147, Issue 2, April 2000 Page(s):96 - 104  
 Digital Object Identifier 10.1049/ip-com:20000148  
[AbstractPlus](#) | Full Text: [PDF](#)(392 KB) IET JNL
- Current approaches in the design of ring-based optical networks**  
 Morley, G.D.; Grover, W.D.;  
[Electrical and Computer Engineering, 1999 IEEE Canadian Conference on](#)  
 Volume 1, 9-12 May 1999 Page(s):220 - 225 vol.1  
 Digital Object Identifier 10.1109/CCECE.1999.807199  
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- Impact of topology on wavelength and switch-port requirements in all-optical hierarchical multi-ring networks**  
 Proestaki, A.; Sinclair, M.C.;  
[Global Telecommunications Conference, 1999, GLOBECOM '99](#)  
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[AbstractPlus](#) | Full Text: [PDF](#)(572 KB) IEEE CNF  
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- The performance of routing and control protocols on virtual rings**  
 Yueyue Song; Wool, A.; Yenez, B.;  
[Global Telecommunications Conference, 1999, GLOBECOM '99](#)  
 Volume 1B, 1999 Page(s):603 - 610 vol.1b  
 Digital Object Identifier 10.1109/GLOCOM.1999.830121  
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6. **The stereo correspondence problem on a ring-based network**  
Arabnia, H.R.;  
[Parallel Algorithms/Architecture Synthesis, 1997. Proceedings. Second Aizu International Symposium](#)  
17-21 March 1997 Page(s):265 - 275  
Digital Object Identifier 10.1109/AISPAS.1997.581675  
[AbstractPlus](#) | Full Text: [PDF](#)(1188 KB) IEEE CNF  
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7. **Routing in WDM rings and multi-ring networks**  
Lee, A.S.T.; Hunter, D.K.; Smith, D.G.; Marcenac, D.;  
[Multiwavelength Optical Networks: Devices, Systems and Network Implementations \(Ref. No. 1998/296\). IEE Colloquium](#)  
on  
18 June 1998 Page(s):4/1 - 4/4  
[AbstractPlus](#) | Full Text: [PDF](#)(276 KB) IET CNF
8. **IEE Colloquium on Multiwavelength Optical Networks: Devices, Systems and Network Implementations. Day Two (Ref. No. 1998/296)**  
[Multiwavelength Optical Networks: Devices, Systems and Network Implementations \(Ref. No. 1998/296\). IEE Colloquium](#)  
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 Nederlof, L.; Struyve, K.; O'Shea, C.; Misser, H.; Yonggang Du; Tamayo, B.;  
[Communications Magazine, IEEE](#)  
 Volume 33, [Issue 9](#), Sept. 1995 Page(s):63 - 70  
 Digital Object Identifier 10.1109/35.408427  
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- 2. A local fairness algorithm for gigabit LAN's/MAN's with spatial reuse**  
 Chen, J.S.-C.; Cidon, I.; Ofek, Y.;  
[Selected Areas in Communications, IEEE Journal on](#)  
 Volume 11, [Issue 8](#), Oct. 1993 Page(s):1183 - 1192  
 Digital Object Identifier 10.1109/49.245907  
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- 3. MetaRing-a full-duplex ring with fairness and spatial reuse**  
 Cidon, I.; Ofek, Y.;  
[Communications, IEEE Transactions on](#)  
 Volume 41, [Issue 1](#), Jan. 1993 Page(s):110 - 120  
 Digital Object Identifier 10.1109/26.212370  
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- 4. Token-ring local-area networks and their performance**  
 Bux, W.;  
[Proceedings of the IEEE](#)  
 Volume 77, [Issue 2](#), Feb. 1989 Page(s):238 - 256  
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- 5. High availability path design in ring-based optical networks**  
 Grover, W.D.;  
[Networking, IEEE/ACM Transactions on](#)  
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- └ 6. **GLOBECOM'99**  
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- └ 7. **A scheme for high-performance LAN interconnection across public MAN's**  
Tantawy, A.N.; Zitterbart, M.;  
[Selected Areas in Communications. IEEE Journal on](#)  
Volume 11, [Issue 8](#), Oct. 1993 Page(s):1133 - 1144  
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Cohen, R.; Ofek, Y.; Segall, A.;  
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J Sparsø, J Staunstrup - Integration, the VLSI Journal, 1993 - portal.acm.org

... Delay-insensitive **multi-ring** structures. ... Alex Kondratyev , Luciano Lavagno , Alexander Saldanha , Alexander Taubin, Partial scan delay **fault** testing of ...Cited by 61 - [Related Articles](#) - [Web Search](#)**Inter-ring cross-connect for survivable multi-wavelength optical communication networks - all 4 versions »**

GK Chang, G Ellinas, JK Gamelin, MZ Iqbal, MRR ... - US Patent 6,226,111, 2001 - Google Patents

... or Firm—Joseph Giordano (57) ABSTRACT Across-connect for a **multi-ring**, multi-channel ... rings for which the rings are designed to be self-healing to **faults**. 15 ...Cited by 16 - [Related Articles](#) - [Web Search](#)**A survey of multi-connected loop topologies for local computer networks - all 3 versions »**

CS Raghavendra, JS Silvester - Computer Networks and ISDN Systems, 1986 - portal.acm.org

... Krishnendu Mukhopadhyaya , Bhabani P. Sinha, **Fault-Tolerant Routing** in Distributed Loop ... Wool , Bülent Yener, Combinatorial design of **multi-ring** networks with ...Cited by 28 - [Related Articles](#) - [Web Search](#)**Architecture for system-wide standardized intra-module and inter-module **fault** testing - all 3 versions »**

JH Brown, DK Bhavsar - US Patent 5,627,842, 1997 - Google Patents

... Brown et al. US005627842A [ii] Patent Number: [45] Date of Patent: [54] ARCHITECTURE FOR SYSTEM-WIDE STANDARDIZED EVTRA-MODULE AND INTER-MODULE **FAULT** TESTING ...Cited by 38 - [Related Articles](#) - [Web Search](#)**Multi-ring performance of the Kendall square multiprocessor - all 5 versions »**

TH Dunigan - 1994 - osti.gov

... latency could be expected to drop to 4.7 #s. The interconnecting ring (ACE:I) in a **multi-ring** configuration is ... to avoid or reduce the latency of a cache **fault**. ...Cited by 5 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**Reliability modeling of SCI ring-based topologies - all 7 versions »**

MA Sarwar, AD George, DE Collins - Local Computer Networks, 2000. LCN 2000. Proceedings. 25th ..., 2000 - doi.ieeecomputersociety.org

... A single link failure eliminates the entire ring from a **multi-ring** system, requiring the ... results to SCI systems requiring varying levels of **fault** tolerance. ...Cited by 5 - [Related Articles](#) - [Web Search](#)**A new label-based source routing for **multi-ring** networks - all 7 versions »**

R Cohen, Y Ofek, A Segall - Networking, IEEE/ACM Transactions on, 1995 - ieeexplore.ieee.org

... 3, JUNE 1995 1063-6692/95\$04.00 © 1995 IEEE A New Label-Based Source Routing for **Multi-Ring** Networks Reuven Cohen, Member, IEEE, Yoram Ofek, Member, IEEE, and ...Cited by 3 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

ATMR: ring architecture for broadband networks

K Imai, T Honda, H Kasahara, T Ito - Global Telecommunications Conference, 1990, and Exhibition.' ..., 1990 - [ieeexplore.ieee.org](#)

... topology over a distance of about hun- - reliability with a **fault-tolerant** reconfiguration ... very high-speed architecture, including Giga-bit **multi-ring**, for ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[book] Network Architecture of a Packet-switched WDM LAN/MAN - all 6 versions »

D Dey, AMJ Koonen, MR Salvador - 2000 - [leosbenelux.org](#)

... LAN/MAN that goes beyond these works by incorporating aspects such as **fault tolerance** and ... Figure 1a - **Multi-ring** WDM network Figure 1b - Segment ring; W=4; N=8 ...

[Cited by 4](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Self-healing ring networks: gateway to public informationnetworking - all 2 versions »

H Towster, R Stephenson, S Morgan, M Keller, R ... - Communications Magazine, IEEE, 1990 - [ieeexplore.ieee.org](#)

... shown in Figure 9, is a **multi-ring** "Transport Network" connecting smaller ... Network architecture-changes call for a self-healing, **fault-tolerant** fiber ring ...

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Token-ring local-area networks and their performance - all 2 versions »

W Bux - Proceedings of the IEEE, 1989 - [ieeexplore.ieee.org](#)

... of token rings, describes the various components of a **multi-ring** architecture and ... Should an active station detect a **fault** within either its own compo- nents ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

Performance of the hyper-ring multicomputer

FN Sibai - Proceedings of the 1998 ACM symposium on Applied Computing, 1998 - [portal.acm.org](#)

... reconfiguration by connecting the nodes to form two counter-rotating rings thereby tolerating **faults** in either ... 3. THE **MULTI-RING** AND **HYPER-RING** TOPOLOGIES ...

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On the impact of pipelined communication in hierarchical ring multicomputers

FN Sibai - Proceedings of the 1997 ACM symposium on Applied computing, 1997 - [portal.acm.org](#)

... me paper in section V. 2. The Hyper-Ring and **Multi-Ring** Topologies In this ... ring to reduce the network congestion and improve the network's **fault tolerance** and ...

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Boundary-scan-based system and method for test and diagnosis - all 4 versions »

NT Jarwala, PA Stiling, E Tammaru, CW Yau - US Patent 5,444,716, 1995 - Google Patents

... under **fault-free** conditions ... independently (ie, a uni-ring mode) or to operate collectively with the other BSM on one or more other boards (ie, a **multi-ring** mode ...

[Cited by 15](#) - [Related Articles](#) - [Web Search](#)

Minimizing the number of optical crossconnect ports in meshnetworks based on bidirectional line- ...

A Fumagalli, M Tacca, I Cerutti - Computer Communications and Networks, 1999. Proceedings. ..., 1999 - [ieeexplore.ieee.org](#)

... of the **fault**. The restoration time of this protection scheme is thus bounded by the ring size. Clearly, the number of protection wavelengths in a **multi-ring** ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

Resource Management for Fault Tolerant Path Structures in SONET Ring Networks - all 4 versions »

WD Grover - Journal of Network and Systems Management, 1999 - Springer  
 ... **Fault** Tolerant Paths in Ring-Based Networks ... of the complete path construction will indeed depend on the ring-by-ring choices, and **multi-ring** sequence effects ...  
[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

**MetaRing-a full-duplex ring with fairness and spatial reuse - all 6 versions »**  
 I Cidon, Y Ofek - Communications, IEEE Transactions on, 1993 - [ieeexplore.ieee.org](#)  
 ... This mode can be useful for initialization and **fault** tolerance. It enables communication between neighbors even when nodal ID's are not known. ...  
[Cited by 147](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

**Real-time communication in FDDI-based reconfigurable networks - all 7 versions »**  
 W Zhao, A Kumar, G Agrawal, S Kamat, N Malcolm, B ... - Real-Time Operating Systems and Software, 1994. RTOSS'94, ..., 1994 - [ieeexplore.ieee.org](#)  
 ... To provide dead-line guarantees in the presence of trunk link **faults**, we have to exploit the **multi-ring** architecture and the **fault** management mechanism. ...  
[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

**Remote sensing-based geological mapping of the area west of Al Madinah, Saudi Arabia - all 2 versions »**  
 MA Alwash, J Zilger - International Journal of Remote Sensing, 1994 - [informaworld.com](#)  
 ... evidence, which supports the impact origin theory, include the **multi-ring** circular feature ... the study area during the field campaign eg, the Wadi Malal **fault**. ...  
[Cited by 1](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[PS] **Multicast traffic in a WDM ring based ATM switch**  
 A Bianco, A Fumagalli, E Leonardi, F Neri, S ... - EUROPTO International Symposium on Advanced Imaging and ..., 1996 - [tlc.polito.it](#)  
 ... distributed switch with huge aggregate bandwidth and high **fault** tolerance characteristics ... approach that can be pursued to obtain a **multi-ring** architecture; ...  
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**High availability path design in ring-based optical networks - all 10 versions »**  
 WD Grover - Networking, IEEE/ACM Transactions on, 1999 - [ieeexplore.ieee.org](#)  
 ... Our experience is similar; for modeling paths through **multi-ring** networks, the state-space ... for a specific interval of time, starting from a no-fault state [39 ...  
[Cited by 28](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

**Ring configurator for system interconnection using fully covered rings - all 3 versions »**  
 ST Pan, T Cheng, CJ Georgiou, GW Nation, CS Li - US Patent 5,535,213, 1996 - Google Patents  
 ... 60 OTHER PUBLICATIONS Balliet, et al., "Bus Architecture for Passive **Fault**-Tolerant Command ... Auxiliary Lookup Register for Switches in **Multi-Ring** Networks", Feb. ...  
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**A Hierarchical Fault-Tolerant Ring Protocol For A Distributed Real-Time - all 2 versions »**  
 T Tunali, K Erciyes, Z Soysert - 2000 - [citeseer.ist.psu.edu](#)  
 ... total event ordering, process group management, multicasting and **fault** tolerance. ...  
 (Update) [Cited by: More A Survey and Comparison of Multi-Ring Techniques for ...](#)  
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**Impact of topology on wavelength and switch-port requirements in all-optical - all 2 versions »**  
 A Proestaki, M Sinclair - 1999 - [citeseer.ist.psu.edu](#)  
 ... wavelength and switch-port requirements in all-optical hierarchical **multi-ring** networks,

Proc. ... Sincla Ir (Correct) Performance Analysis of a **Fault**-tolerant ATM ...

[Cached](#) - [Web Search](#)

### Eight-channel arrayed optical add/drop module with BER measurement and drop/continue functions

K Hattori, K Shimano, M Oguma, T Goh, M Jinno - Communications, 1999. APCC/OECC'99. Fifth Asia-Pacific ... , 1999 - [ieeexplore.ieee.org](#)

... of the end-to-end digital quality is detected, but the **fault** cannot be ... made in the optical domain, would enable realizing dual-access **multi-ring** networks and ...

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### Optimal Clustering of Hierarchical Hyper-Ring Multicomputers - all 5 versions »

FN Sibai - The Journal of Supercomputing, 1999 - Springer

... reconfiguration by connecting the nodes to form two counter-rotating rings thereby tolerating **faults** in either ... 56 3. The Hyper-Ring and **Multi-Ring** Topologies ...

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### LAN management in an IBM framework - all 3 versions »

M Willett, RD Martin - Network, IEEE, 1988 - [ieeexplore.ieee.org](#)

... the network. • Sender looks for token • Changes token to frame and appends data Page 4 @ **FAULT** 9 March 1988—Vol. 2, No. 2 ...

[Web Search](#)

### Performance studies of a selfhealing network protocol in TelecomCanada long haul networks

WD Grover, BD Venables, JH Sandham, AF Mine - Global Telecommunications Conference, 1990, and Exhibition. ' ... , 1990 - [ieeexplore.ieee.org](#)

... but the disadvantages of high capacity requirements and awkwardness in planning **multi-ring** networks, and a ... (The Sender is one of the nodes next to the **fault**. ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

### [BOOK] Topological Design of Loss-free Switch-based LANs - all 4 versions »

B Yener, Y Ofek, M Yung - 1994 - [doi.ieeeecs.org](#)

... there is a trade-off between the degree of a node, and the routing length and **fault** toler- ance. ... Therefore, we call this scheme **multi- ring** convergence routing ...

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### OPTIPRISM: a distributed hierarchical network management system for all-optical networks - all 2 versions »

B Khan, DD Kleiner, D Talmage - Global Telecommunications Conference, 2001. GLOBECOM'01. ... , 2001 - [ieeexplore.ieee.org](#)

... an agent-based network management system (NMS) providing configuration and **fault** management ser ... of six sites connected in the dual-homed **multi-ring** topology [22 ...

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### [PS] Towards an Agent-Based Distributed Hierarchical Network Management System for All-Optical Networks - all 6 versions »

B Khan, DD Kleiner, D Talmage - Proceedings of the Third International Workshop on Mobile ... , 2001 - [cmf.nrl.navy.mil](#)

... and alerts operates in the reverse direction: subordinate managers report **fault** conditions to ... of six sites connected in the dual- homed **multi-ring** topology [21 ...

[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

### A local fairness algorithm for gigabit LAN's/MAN's with spatial reuse - all 4 versions »

JSC Chen, I Cidon, Y Ofek - Selected Areas in Communications, IEEE Journal on, 1993 - [ieeexplore.ieee.org](#)  
 ... modes, integration of synchronous and asynchronous traffic, and **multi-ring** extensions  
 [4 ... This work introduces a **fault-tolerant** local fairness algorithm that ...  
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#### A 1 MHz chopper for injection into the TRIUMF KAON Factory

CB Figley, GD Wait, MJ Barnes - Power Modulator Symposium, 1990., IEEE Conference Record of ..., 1990 - [ieeexplore.ieee.org](#)  
 ... The factory proposal includes a **multi-ring** 30 GeV accelerator. ... The tetrode switches selected were artificially large to provide **fault** tolerance, ensure ...  
 Cited by 3 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

#### [PS] CURRICULUM VITAE - all 7 versions »

B Yener - Computer Networks, 1994 - [cs.columbia.edu](#)  
 ... route length, xed degree and high **fault-tolerance** properties. In more recent work [j15,c5] we use Generalized Quadrangles to create **multi-ring** networks that ...  
[View as HTML](#) - [Web Search](#)

#### Bridging the ring-mesh dichotomy with p-cycles - all 10 versions »

WD Grover, D Stamatelakis - Proc. of DRCN Workshop, 2000 - [ee.ualberta.ca](#)  
 ... In complete **multi-ring** network designs the working fiber or channel groups themselves are usually not fully utilizable, so the overall installed-to-working ...  
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#### Performance Issues in the Design of Hierarchical-ring and Direct Networks - all 2 versions »

G Ravindran - 1998 - [citeseer.ist.psu.edu](#)  
 ... 1995 101 An adaptive and **fault-tolerant** wormhole ... A low overhead, high throughput network interface - Callahan, Goldstein - 1995 5 **Multi-ring** performance of ...  
[Cached](#) - [Web Search](#)

#### A fast link assignment algorithm for satellite communication networks

K Harathi, P Krishna, RE Newman-Wolfe, RYC Chow - Computers and Communications, 1993., Twelfth Annual ..., 1993 - [ieeexplore.ieee.org](#)  
 ... due to the large number of satellites being considered, **faults**, orbital perturbations, etc ... The **multi—ring** architecture is the most natural as usually multiple ...  
 Cited by 4 - [Related Articles](#) - [Web Search](#)

#### Media access protocols for Gb/s LANs with spatial reuse, fairness, and isochronous service - all 3 versions »

F Closs, Y Ofek - Compcon Spring'92. Thirty-Seventh IEEE Computer Society ..., 1992 - [ieeexplore.ieee.org](#)  
 ... 3.4 Properties of the Global Fairness The following summarizes the properties of the global fairness algorithm with its **fault** tolerance enhancement. ...  
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#### QUORUM BASED TOTAL ORDER GROUP COMMUNICATION SYSTEM - all 10 versions »

P Ranaweera - 2001 - [collectionscanada.ca](#)  
 ... cost. However designing efficient, **fault** - tolerant ... order. The representatives services provide the **fault** tolerance capabilities. They ...  
[Related Articles](#) - [Web Search](#) - [Library Search](#)

#### Error-and flow-control protocols for terabit optical networks - all 6 versions »

T Szymanski - Optoelectronic interconnects VII, 2000 - [ece.mcmaster.ca](#)  
 ... 64 bits wide) for extracting optical data from the **multi-ring** and forwarding the

data in electronic format to the MP. For increased **fault** tolerance and ...

[Related Articles](#) - [View as HTML](#) - [Web Search](#)

#### Multiring data transmission system - all 3 versions »

M Hirome - US Patent 5,309,435, 1994 - Google Patents

... switched to the other transmission line if a **fault** occurs panyng drawings. ... What is claimed is: 1. A **multi-ring** data transmission system which uses a

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

#### Apparatus and methods for providing an interface between FDDI-II rings - all 2 versions »

DC Brief - US Patent 5,440,557, 1995 - Google Patents

Page 1. US005440557A United States Patent [19] Brief [ii] Patent Number:

[45] Date of Patent: [54] APPARATUS AND METHODS FOR PROVIDING ...

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#### The Multi-Level Communication: Efficient Routing for Interconnection Networks - all 5 versions »

MB Hadim, I Sakho - The Journal of Supercomputing, 2001 - Springer

... this condition is necessary when considering the other efficiency routing criteria that a routing strategy should satisfy, such as **fault** tolerance and ...

[Related Articles](#) - [Web Search](#) - [BL Direct](#)

#### TITAC-2: An asynchronous 32-bit microprocessor based on scalable-delay-insensitive model - all 9 versions »

A Takamura, M Kuwako, M Imai, T Fujii, M Ozawa, I ... - Proc. International Conf. Computer Design (ICCD), 1997 - doi.ieeecomputersociety.org

... of worst-case performance, 2) low power consumption, 3) ease of modular composition, 4)no clock alignment at the interfaces, 5) timing **fault** tolerance, etc. ...

[Cited by 45](#) - [Related Articles](#) - [Web Search](#)

#### [book] Parallel Computing for Pattern Recognition & Artificial Intelligence

N Ranganathan - 1995 - books.google.com

... costs, powerful CAD design automation tools, and reliable and **fault-tolerant** design ... image processing and computer vision based on a **multi-ring** network topology ...

[Cited by 4](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

#### Putting computers to work [Lyons Electronic Office] - all 2 versions »

D Caminer - IEE Review, 2001 - ieeexplore.ieee.org

... If a **fault** did occur during a live run, there were techniques on hand to ... The overall result on LEO 1 was something like a **multi-ring** circus, with three lines ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

#### High-performance IP routing table lookup using CPU caching - all 3 versions »

T Chiueh, P Pradhan - INFOCOM'99. Eighteenth Annual Joint Conference of the IEEE ..., 1999 - ieeexplore.ieee.org

... space consumption/access pattern is going to be sparse, which may lead to a very large page table size and excessive TLB miss rate and/or page **fault** rate. ...

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#### Experiences with group communication middleware - all 9 versions »

S Johnson, F Jahanian, S Ghosh, B Vanvoorst, N ... - Dependable Systems and Networks, 2000. DSN 2000. Proceedings ..., 2000 - ieeexplore.ieee.org

... These include the Totem **multi-ring** protocol [2], the Causal daisy architecture [5], and **fault-** tolerant total order multicast to asynchronous groups [12]. ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[A local clocking approach for self-timed datapath designs - all 3 versions »](#)

S Kim, R Sridhar - VLSI, 1995. Proceedings., Fifth Great Lakes Symposium on, 1995 - [ieeexplore.ieee.org](#)  
... speed improvement, its modularity, the design reusability, the **fault toler-** ance ...  
Energy per cycle 2 ns pJ/cycle Caltech Micropipeline **Multi-ring** Synchronous L ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

[Asynchronous design using commercial HDL synthesis tools - all 8 versions »](#)

M Ligthart, K Fant, R Smith, A Taubin, A ... - Proc. International Symposium on Advanced Research in ..., 2000 - [doi.ieeeecs.org](#)

Page 1. Asynchronous Design Using Commercial HDL Synthesis Tools. Michiel Ligthart, Karl Fant, Ross Smith, Alexander Taubin, Alex Kondratyev ...

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[Proposal of a real time reconstruction processor for 3-D positronemission tomography](#)

E Di Sciascio, R Guzzardi, D Marino - Nuclear Science Symposium and Medical Imaging Conference, ..., 1992 - [ieeexplore.ieee.org](#)

... the PLP requires 350 PES, with a part of them used for **fault** eventuality tolerance, each made ... Data Acquired by a **Multi-ring** Camera with Septa Retracted." Med. ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#)

[Architectre level optimization for asynchronous IPs - all 3 versions »](#)

W Hardt, M Visarius, B Kleinjohann - ASIC/SOC Conference, 2000. Proceedings. 13th Annual IEEE ..., 2000 - [ieeexplore.ieee.org](#)

... as performance, chip size, power consumption up to **fault** tolerance are ... und Optimierung von heterogenen Verzögerungszeit-invarianten **Multi-Ring** Ar- chitekturen. ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

[\[book\] Transputer Research and Applications 3: NATUG-3: Proceedings of the Third Conference of the North ...](#)

AS Wagner - 1990 - [books.google.com](#)

... on a **multi -ring** transputer network- an example 107 Ilstid R. A rabnia and Mary R. Robinson Ilardss are voting of transputers in real-time sMR **fault**-tolerant ...

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[Dataflow machine architecture - all 6 versions »](#)

AH Veen - ACM Computing Surveys (CSUR), 1986 - [portal.acm.org](#)

Page 1. Dataflow Machine Architecture ARTHUR H. VEEN Center for Mathematics and Computer Science, PO Box 4079, 1009 AB Amsterdam, The Netherlands ...

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[\[book\] Object-oriented Hierarchies Across Protection Boundaries - all 5 versions »](#)

DW Dykstra - 1991 - [cs.uiuc.edu](#)

... 52 5.8 **Multi-ring** Hierarchies : : : : 54 6 Experience Moving the Filesystem ...

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[Design study for a flywheel-electric car](#)

WM Brobeck - Vehicular Technology Conference, 1978. 28th IEEE, 1978 - [ieeexplore.ieee.org](#)

... be corrected for. This is the fatal **fault** of existing storage batteries and possibly of all future batteries as well. Not only must ...

[Related Articles](#) - [Web Search](#)

[CORD: Contention Resolution by Delay Lines - all 2 versions »](#)



I Chlamtac, LG Kazovsky, RT Hofmeister, AM Lu, MS ... - IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 1996 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... 2 with  $m_1 = m_2 = 1$ , is the device that will be installed in the final CORD testbed.

Note that the proposed SDL design can be inherently **fault** tolerant. ...

Cited by 146 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

### Characterizing the Performance Space of Shared Memory Computers Using Micro-Benchmarks - all 7 versions »

RH Saavedra, RS Gaines, MJ Carlton - Proc. Hot Interconnects, 1993 - [cs.stadia.fi](http://cs.stadia.fi)

... A **multi-ring** machine has a ring interface in each ring:0 ring that contains a directory for the entire ring (that is, it contains an entry for every page that ...

Cited by 10 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

### Performance evaluation of a dataflow architecture - all 7 versions »

D Ghosal, LN Bhuyan - IEEE Transactions on Computers, 1990 - [doi.ieeecs.org](http://doi.ieeecs.org)

Page 1. IEEE TRANSACTIONS ON COMPUTERS, VOL. 39. NO. 5, MAY 1990 615

Performance Evaluation of a Dataflow Architecture DIPAK GHOSAL ...

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### A scheme for high-performance LAN interconnection across publicMAN's - all 3 versions »

AN Tantawy, M Zitterbart - Selected Areas in Communications, IEEE Journal on, 1993 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

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1993 1133 A Scheme for High-Performance LAN Interconnection ...

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### High-Performance 1P Routing Table Lookup Using CPU Caching - all 11 versions »

TCP Pradhan - Proceedings of IEEE INFOCOMM, 1999 - [ece.ut.ac.ir](http://ece.ut.ac.ir)

... large page table size and excessive TLB miss rate and/or page **fault** rate ... The internal backbone network of BNL is a **multi-ring** FDDI network, while the periphery ...

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### Invocation architecture for generally concurrent process resolution - all 6 versions »

KM Fant - US Patent 5,930,522, 1999 - Google Patents

... 1989. Jens Sparse, et al., Design of Delay Insensitive Circuits Using **Multi-Ring** Structures, European Design Automation Conference, IEEE 0-8186-2780, pp. ...

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### [PS] Evolutionary Algorithms for Optical Network Design: A Genetic-algorithm/heuristic Hybrid Approach - all 2 versions »

MC Sinclair - 2001 - [uk.geocities.com](http://uk.geocities.com)

... 134 6.2 Dual-homing **multi-ring** network with DCR interconnection [20] . . . . . eg **multi-ring** [20{24}] have several desirable qualities, Page 21.  $\lambda_0 \lambda_1 \lambda_2$  ...

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### Parallel Computing on an Ethernet Cluster of Workstations: Opportunities and Constraints - all 7 versions »

M Hamdi, Y Pan, B Hamidzadeh, FM Lim - The Journal of Supercomputing, 1999 - Springer

... These advantages and disadvantages are a function of the memory usage, computing communication efficiency, ease of implementation, and **wxwxw fault-tolerance** ...

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### Control method for distributed processing system - all 4 versions »

M Orimo, K Mori, Y Suzuki, K Kawano, M Takeuchi, M ... - US Patent 5,666,484, 1997 - Google Patents

... 32 Sawaya et al 371/29.1 Lin et al 364/200 Druegh et al 371/29.1 Paul et al

371/16.5 OTHER PUBLICATIONS "The structure of system 188, a fault-tolerant computer ...  
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multi-ring fault

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